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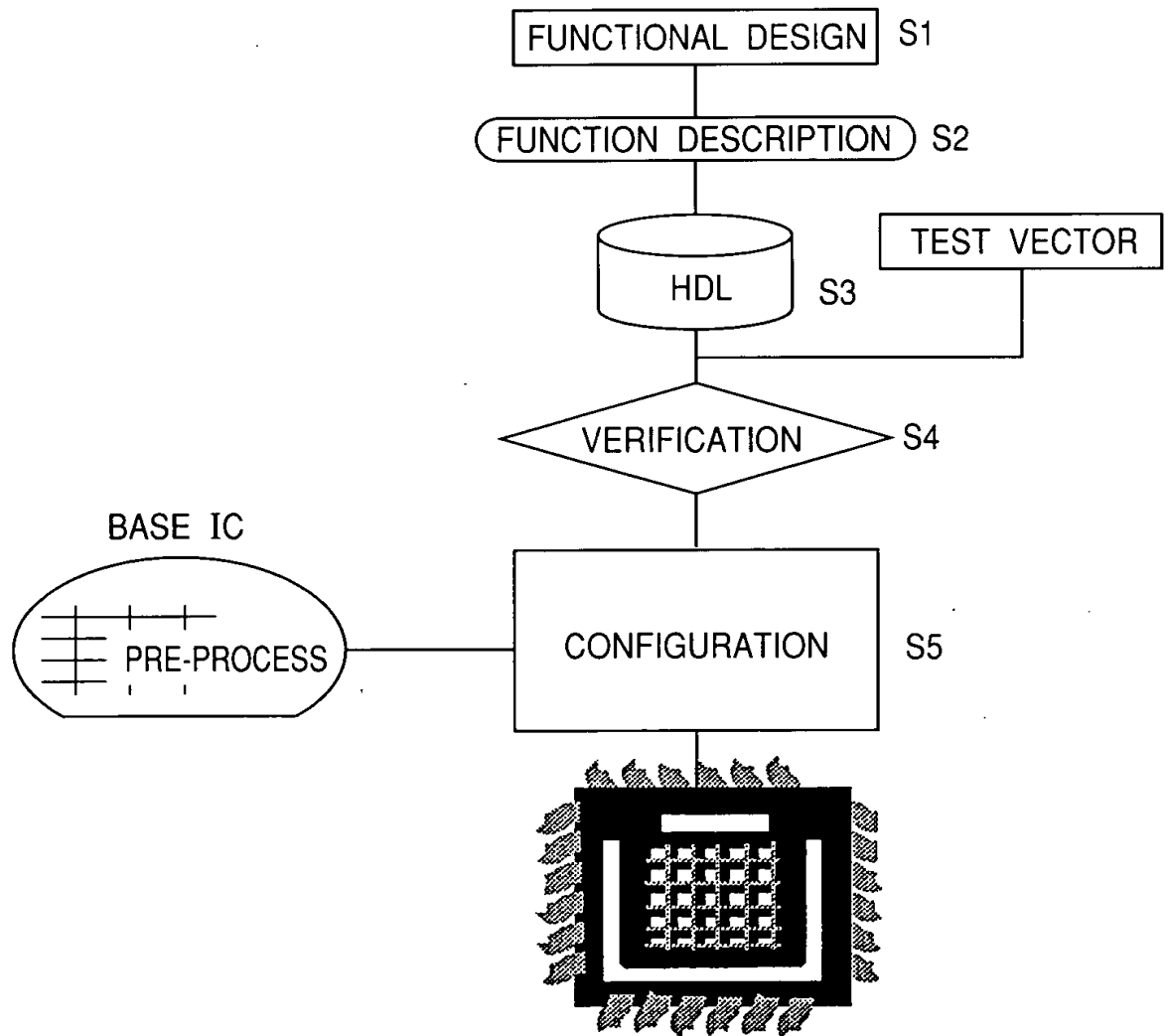
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BY	CLASS	SUBCL
DRAFTSMAN		

09/914429

1 / 14

FIG. 1

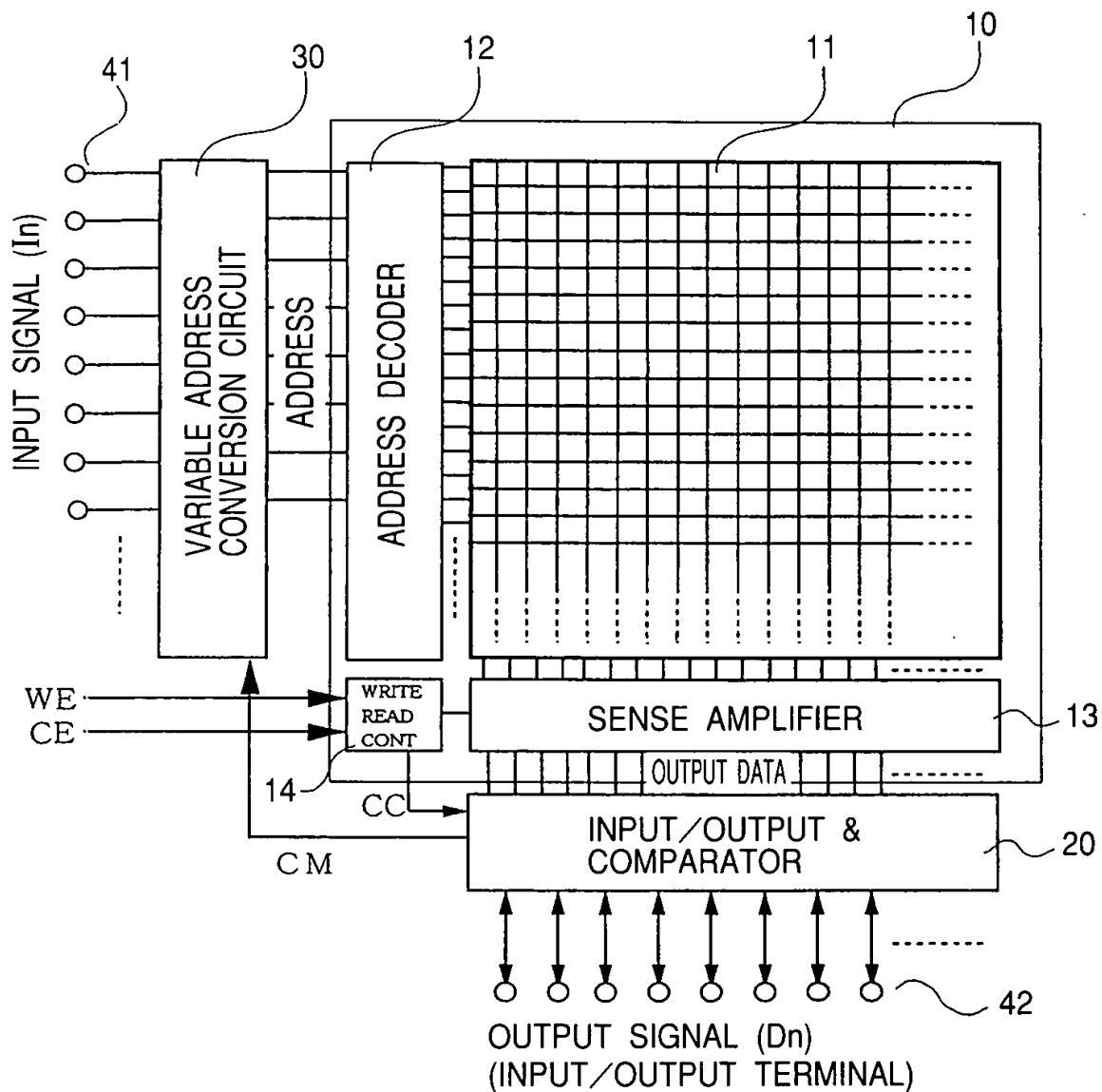


09/914429-110504

2 / 14

09/914429

FIG. 2



09/914429

3 / 14

FIG. 3

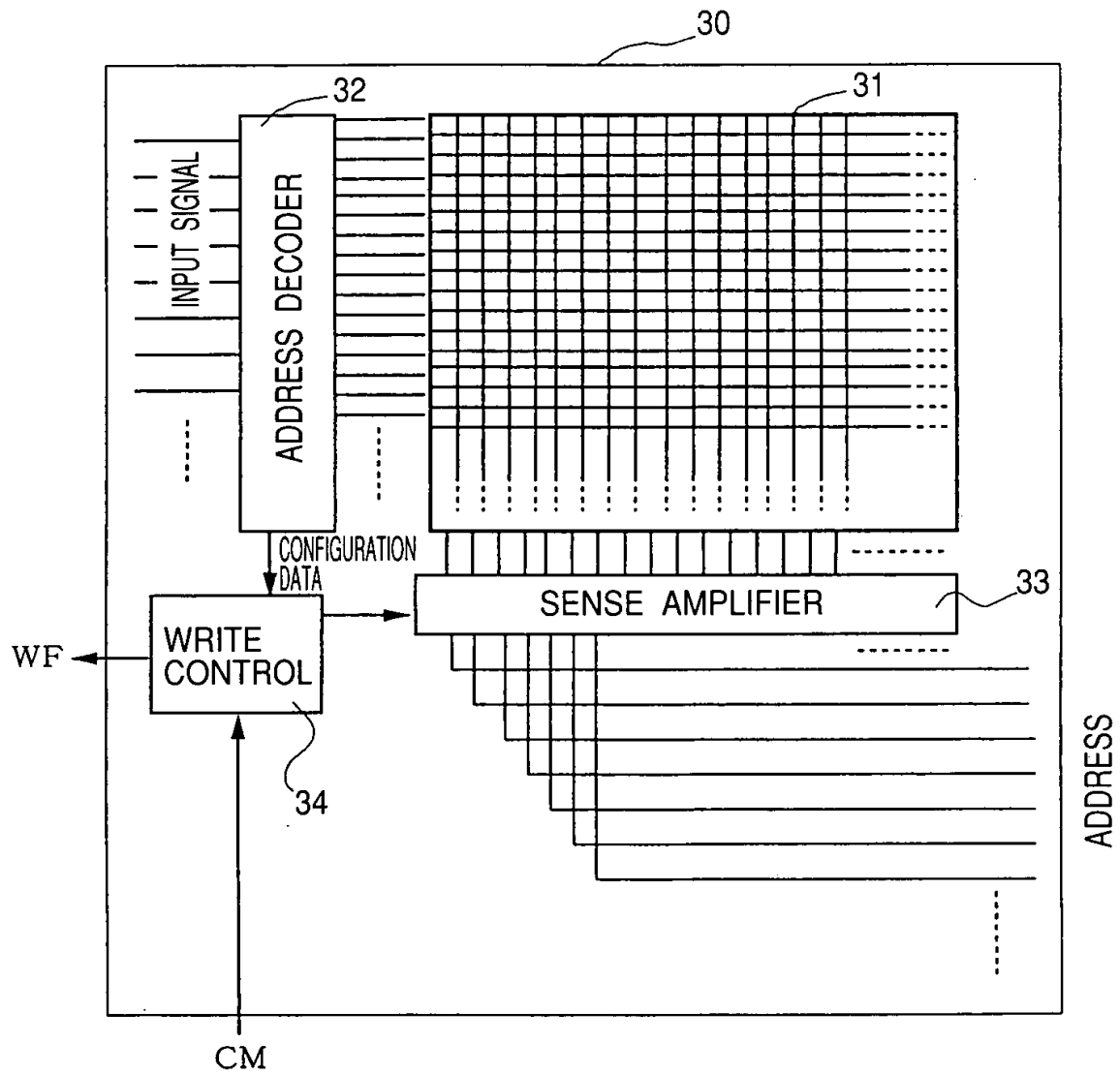
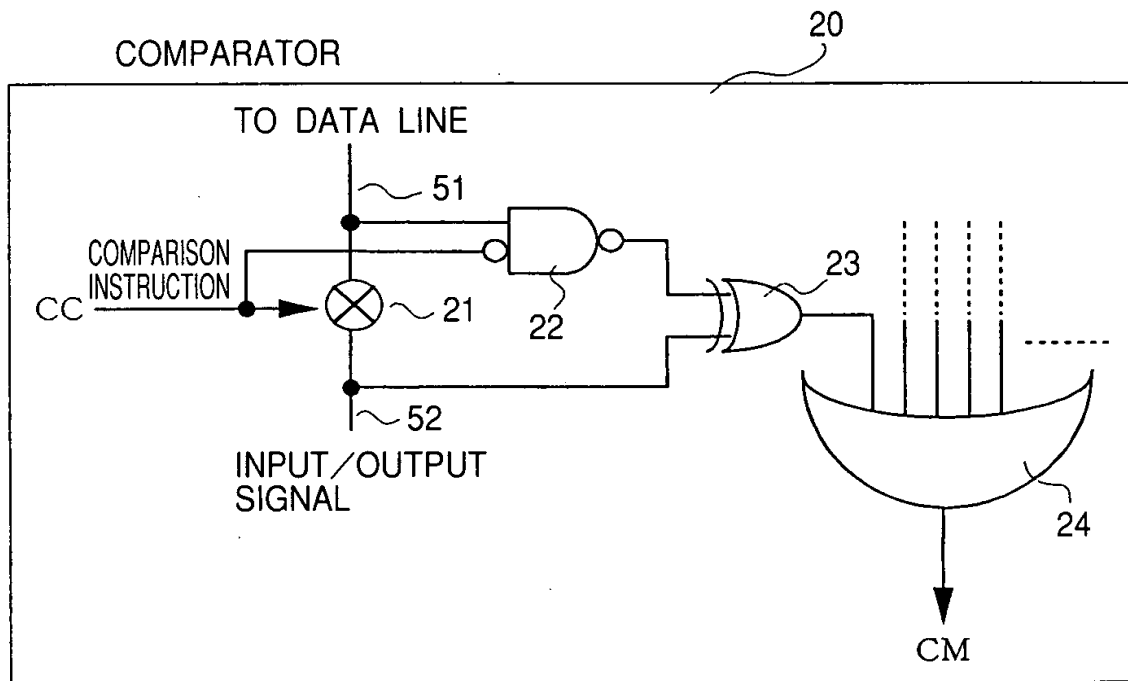
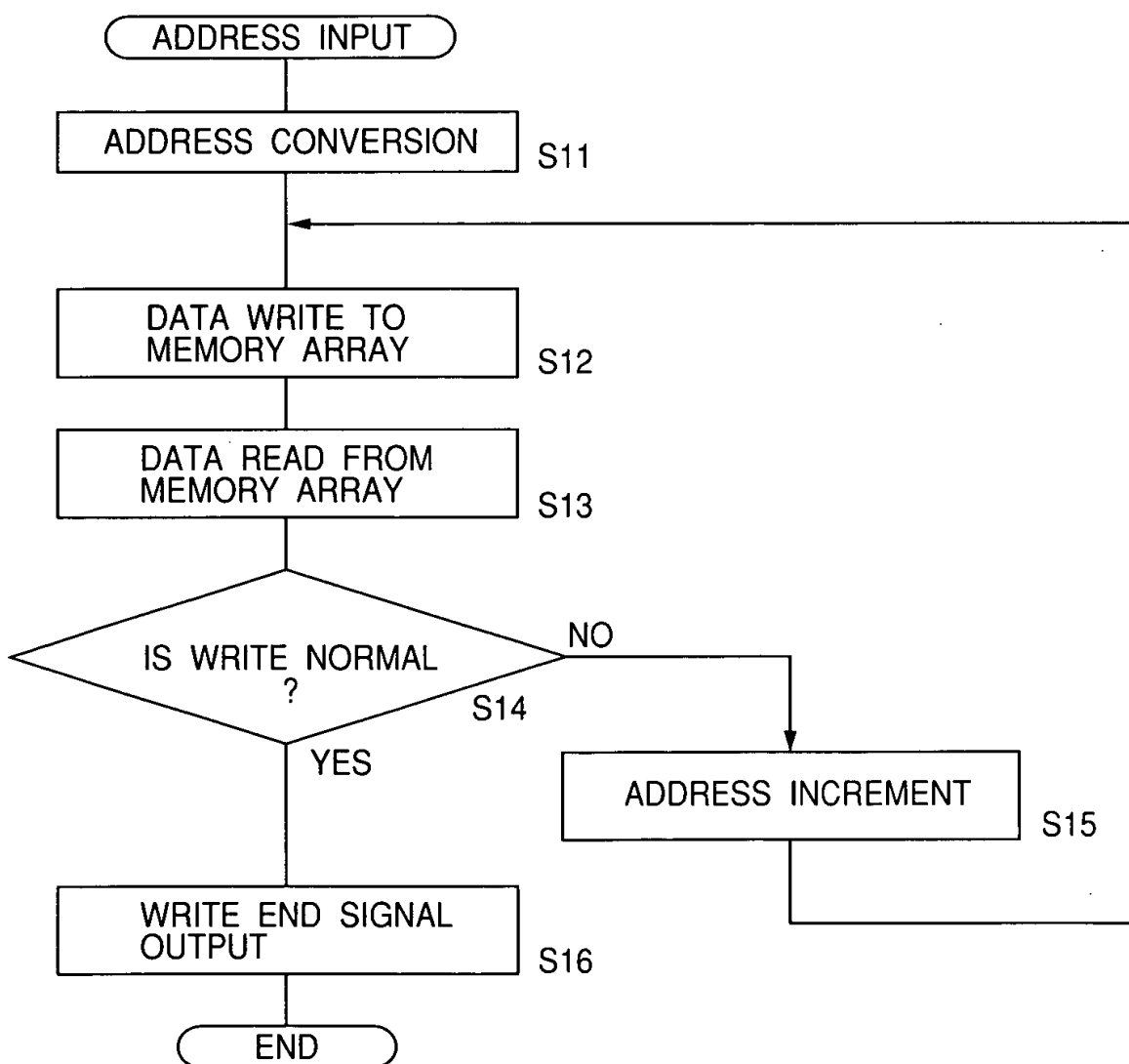


FIG. 4



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**FIG. 5**

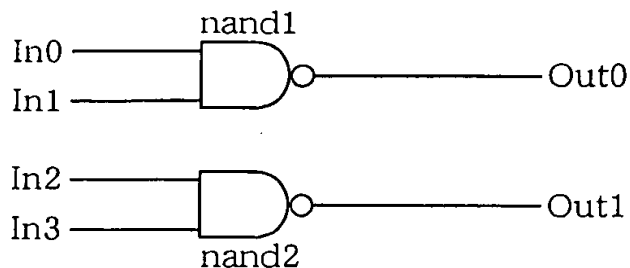


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09/914429

6 / 14

FIG. 6



## HDL DESCRIPTIVE STATEMENT

//External Declaration

module nand1\_gate(

In0,

In1,

Out0

);

//Internal Declarations

input In0;

input In1;

wire In0;

wire In1;

reg Out0;

always @ (In0 or In1) begin

//Block 1

case(In0, In1)

2'b 00:

Out0=1'b1;

2'b 01:

Out0=1'b1;

2'b 10:

Out0=1'b1;

2'b 11:

Out0=1'b0;

default

;

endcase

end

endmodule // nand1\_gate

//External Declaration

module nand2\_gate(

In2,

In3,

Out1);

//Internal Declarations

input In2;

input In3;

wire In2;

wire In3;

reg Out1;

always @ (In2 or In3) begin

//Block 1

case(In2, In3)

2'b 00:

Out1=1'b1;

2'b 01:

Out1=1'b1;

2'b 10:

Out1=1'b1;

2'b 11:

Out1=1'b0;

default

;

endcase

end

endmodule // nand1\_gate2

09/914429-10501

09/914429

7/14

FIG. 7

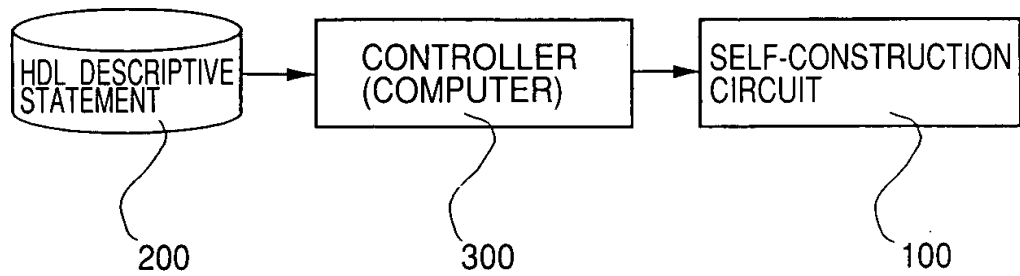


FIG. 8

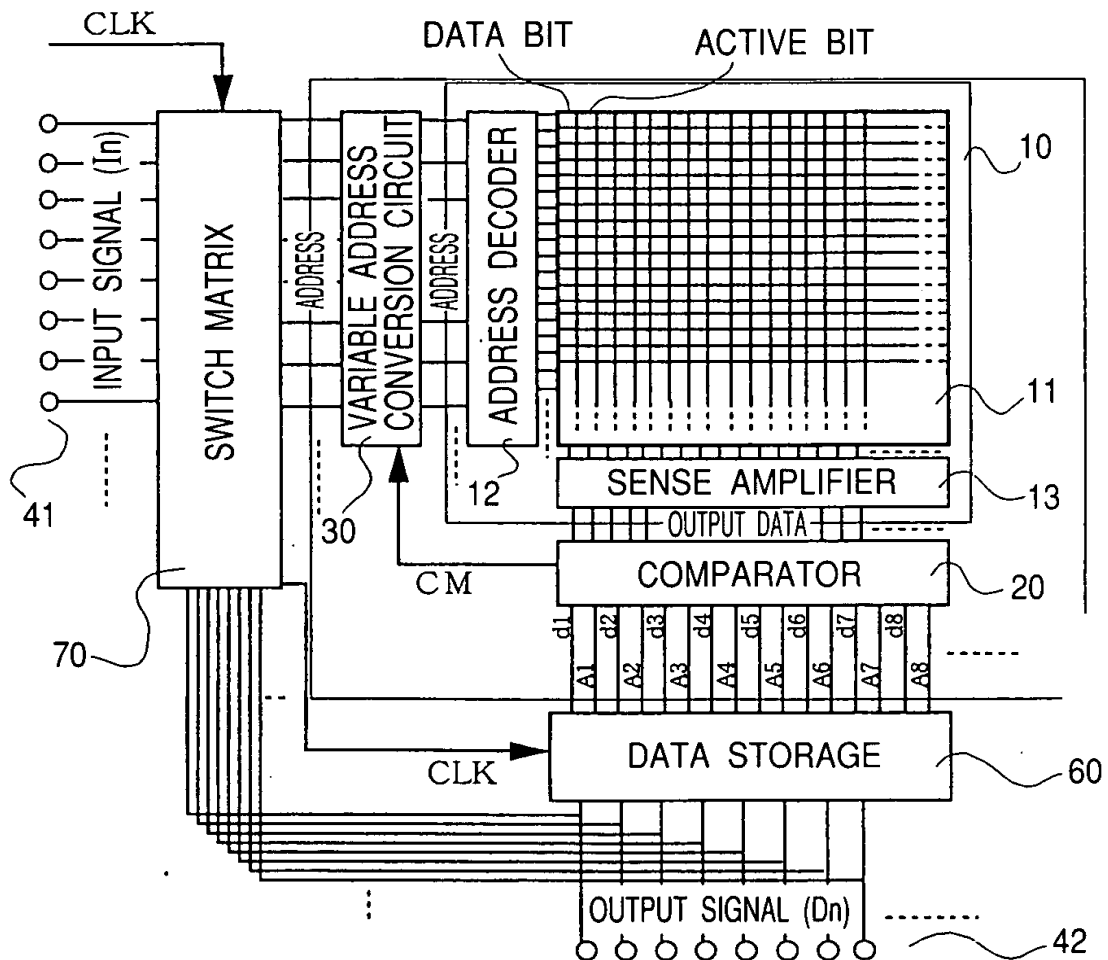


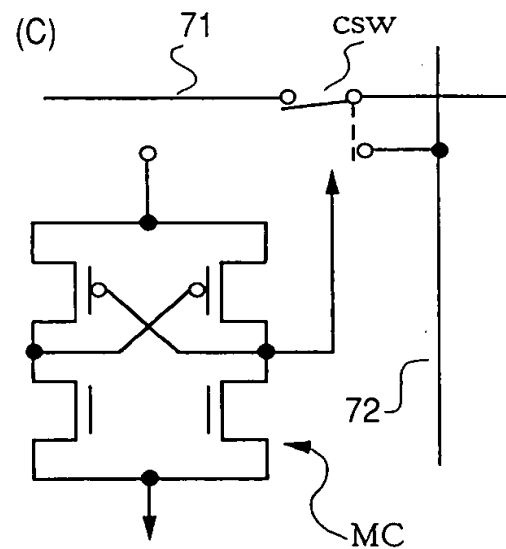
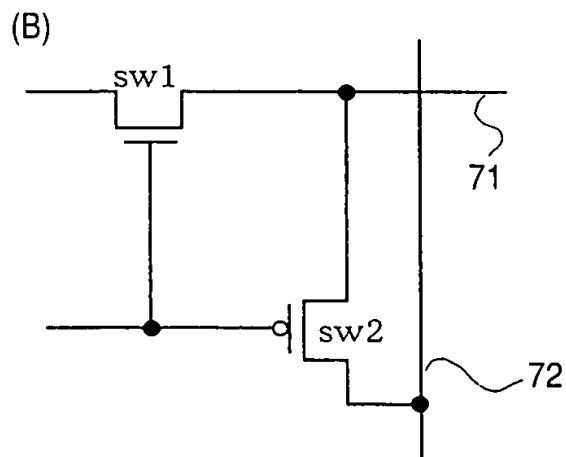
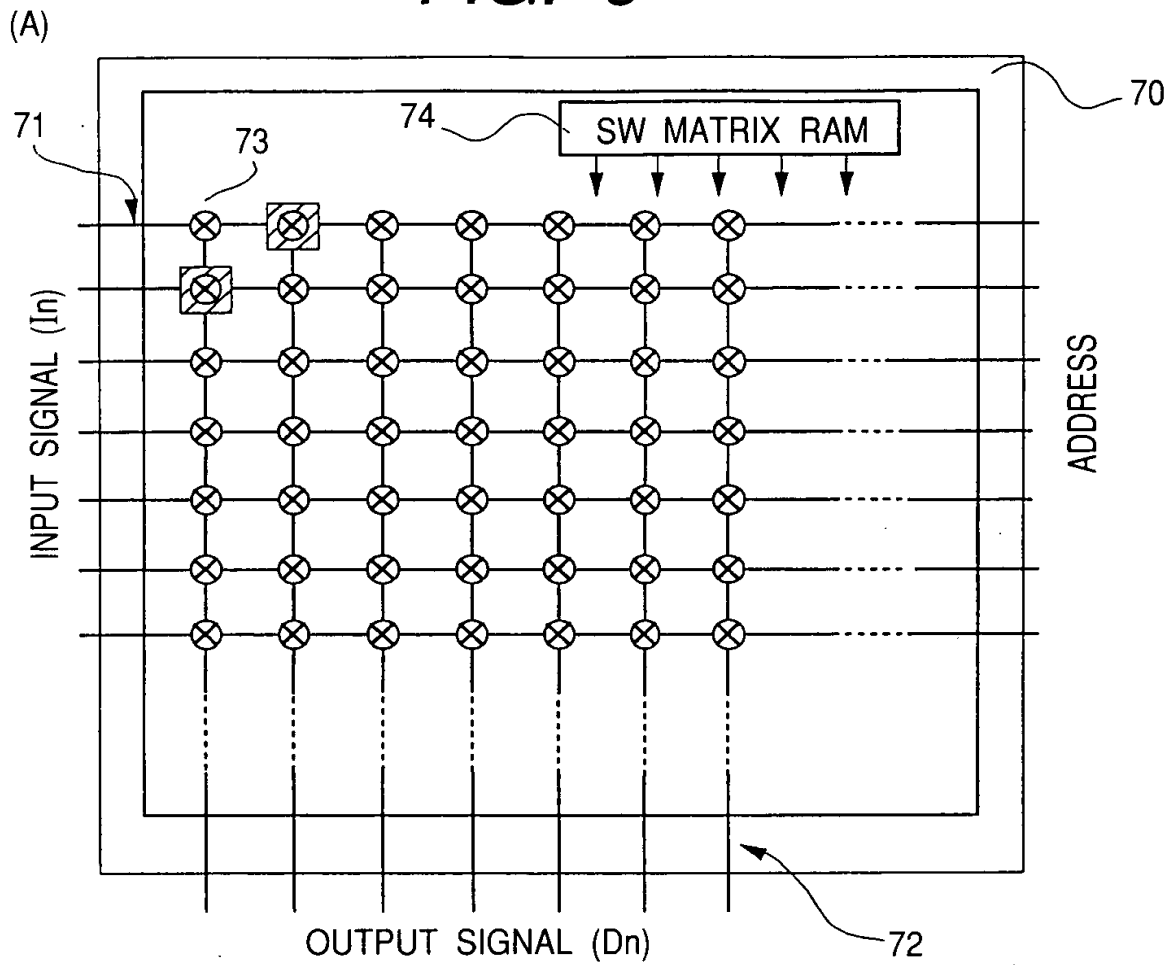
FIG. 8



09/914429

8 / 14

FIG. 9



09/914429

9/14

FIG. 10

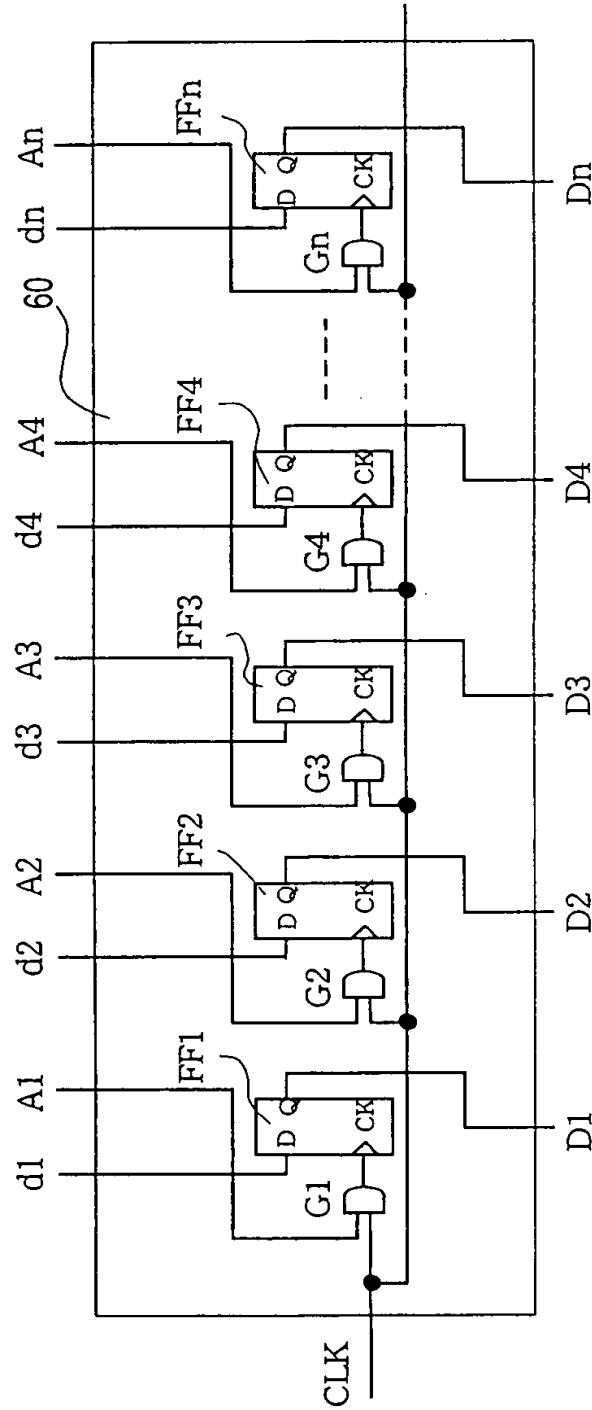
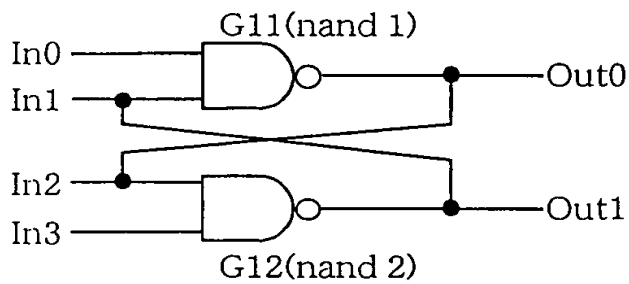


FIG. 11



## HDL DESCRIPTIVE STATEMENT

```

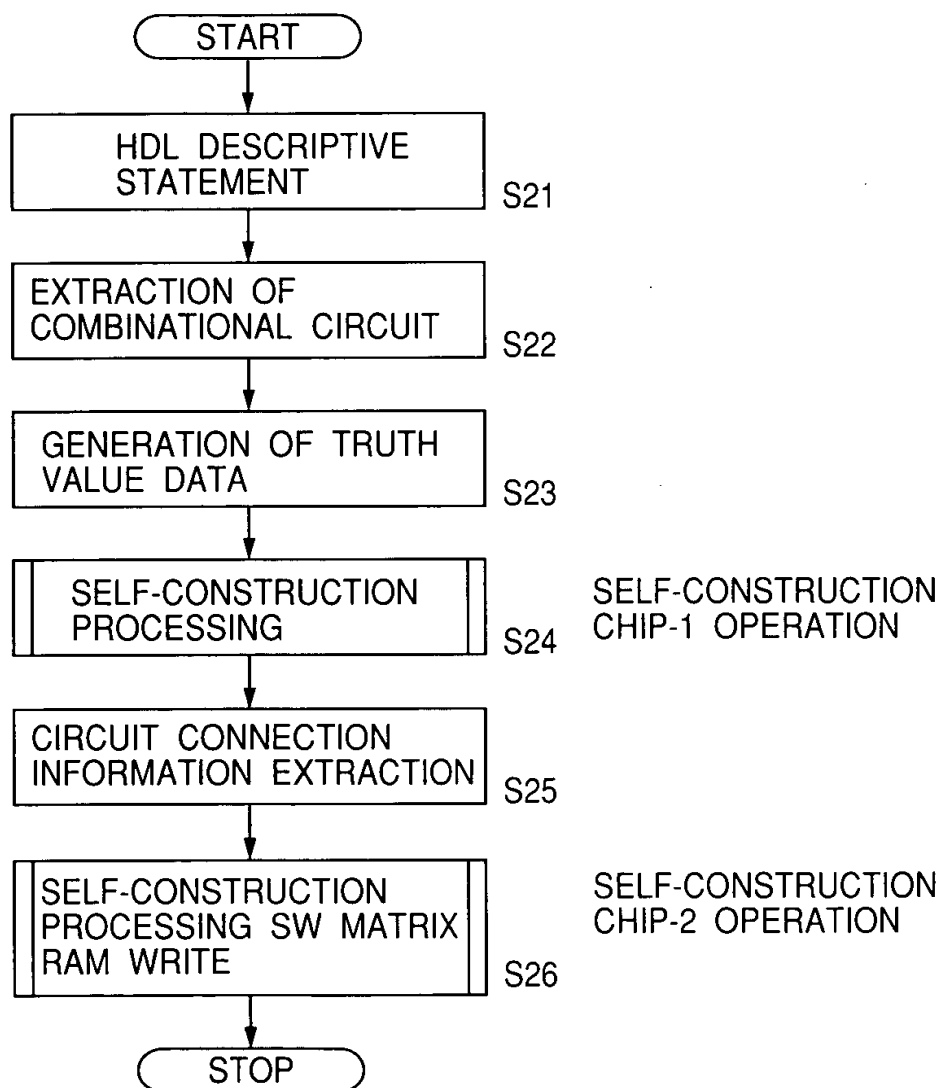
//External Declaration
module ff_model(
    In0,
    In1,
    Out0,
    Out1
);
//Internal Declarations
input In0;
input In1;
output Out0;
output Out1;
wire In0;
wire In1;
reg Out0;
reg Out1;
//Local declarations
//Instaces
nand1_gate(
    .In0(In0),
    .In1(Out1),
    .Out0(Out0),
);
nand2_gate(
    .In2(Out0),
    .In3(In3),
    .Out0(Out1)
);
endmodule // ff_model

```

09/914429

11 / 14

FIG. 12

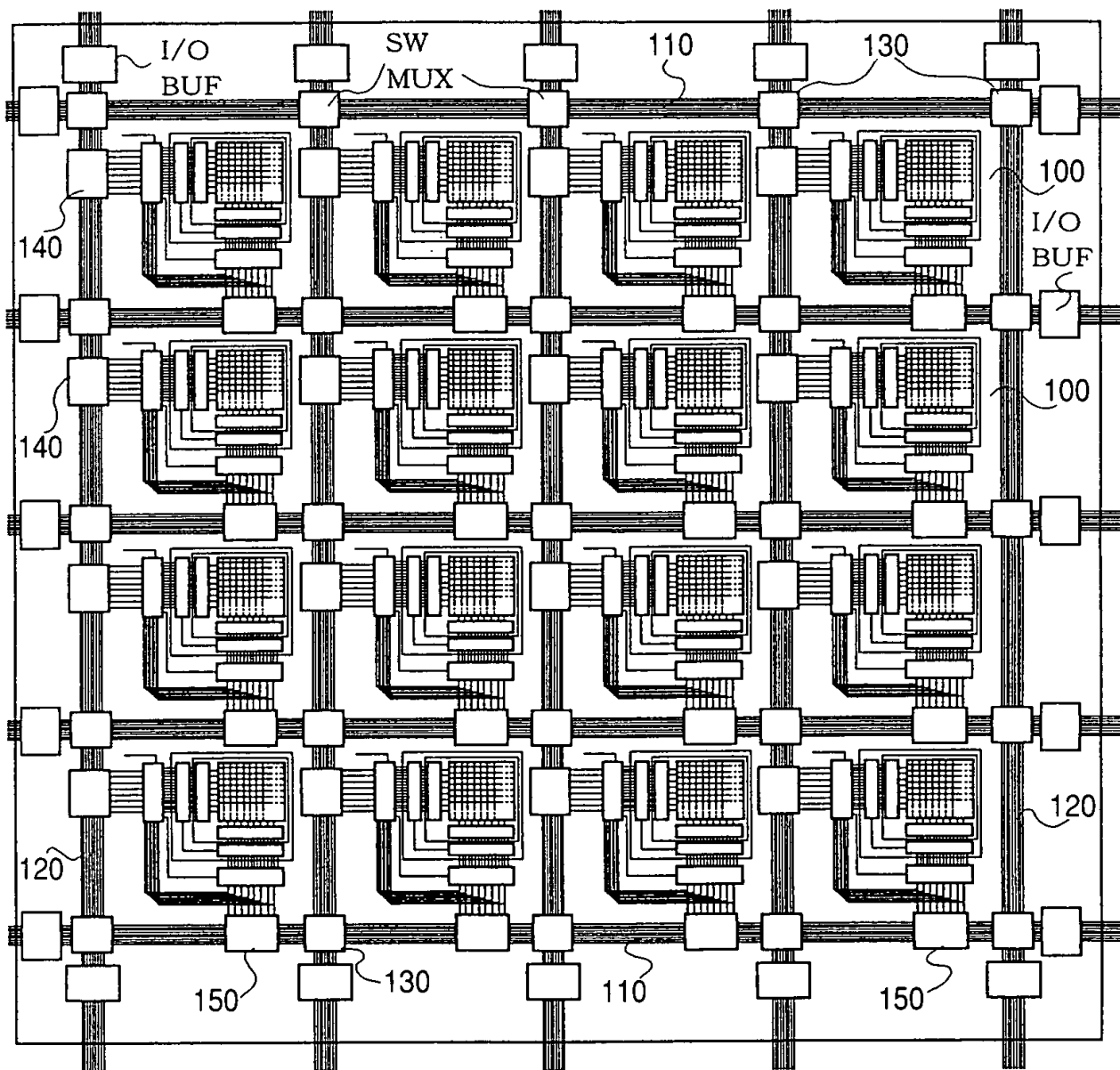


09/914429:10504

09/914429

12/14

FIG. 13

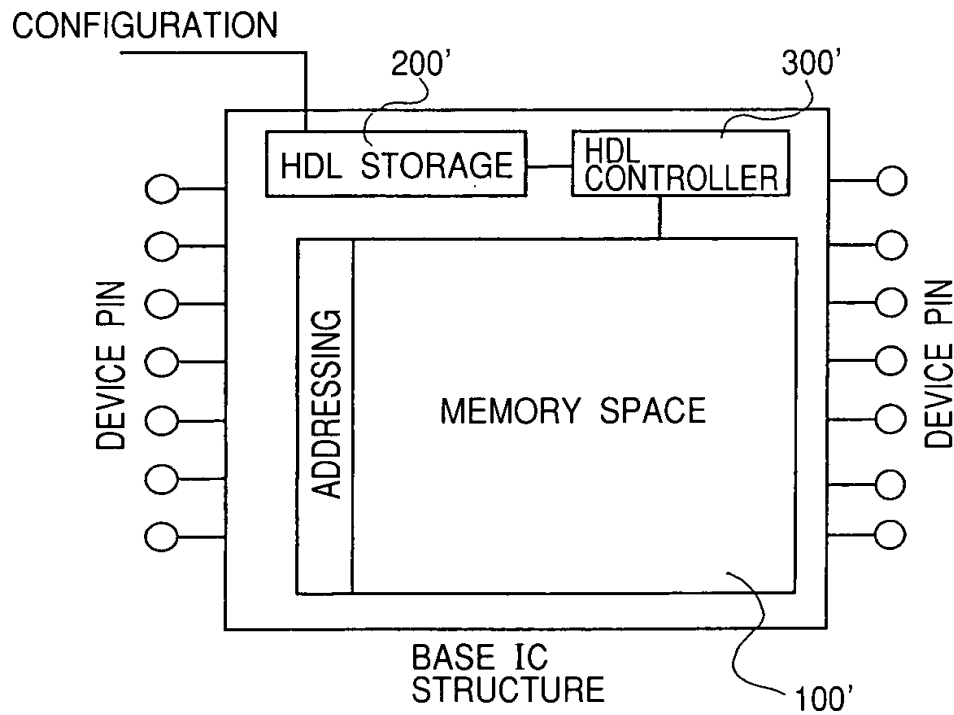


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09/914429

13 / 14

FIG. 14

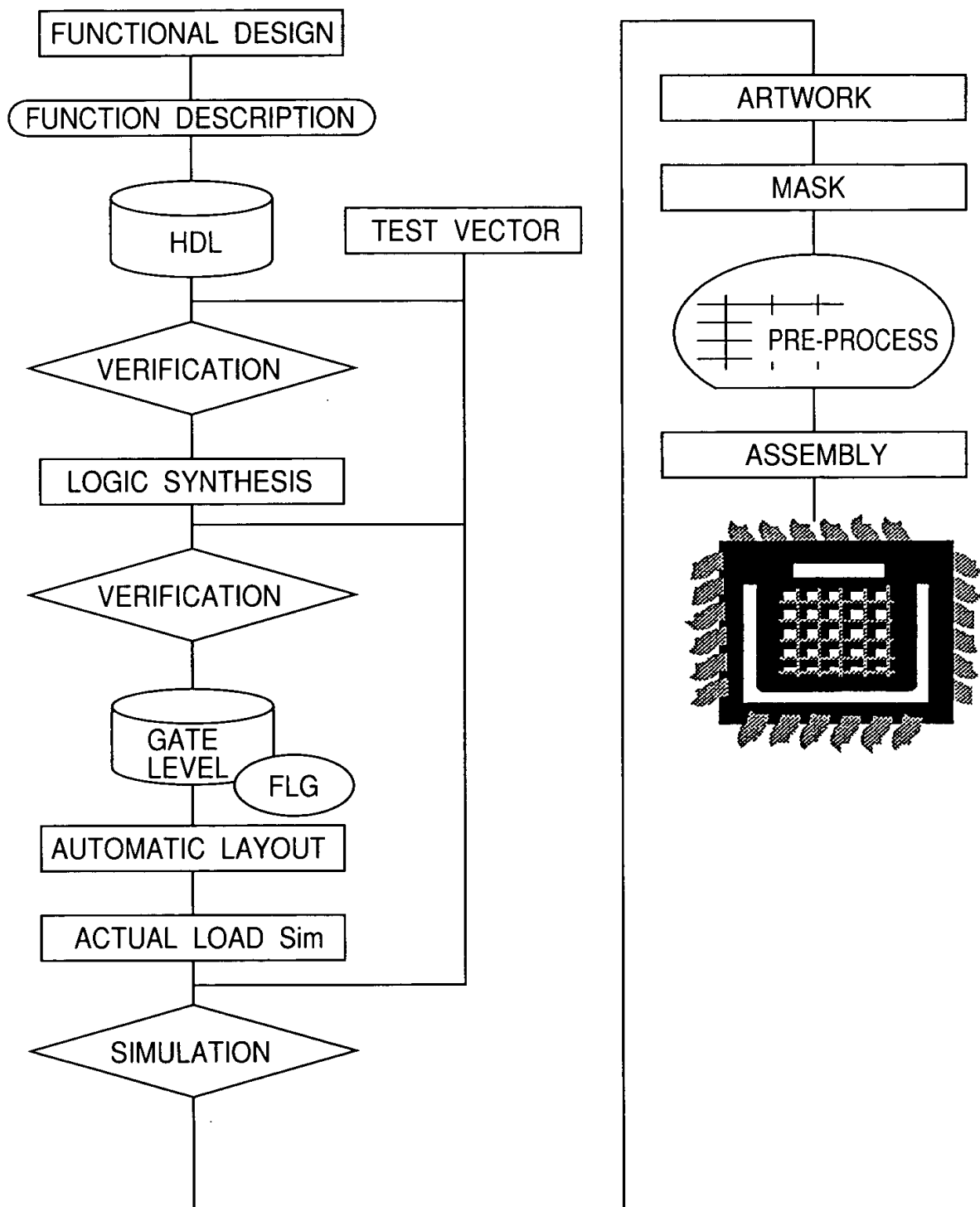


09/914429-1301

09/914429

14 / 14

FIG. 15



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